

JURISDICTIONAL WETLANDS WERE DELINEATED BY CYNTHIA BALCIUS OF STONEY RIDGE ENVIRONMENTAL LLC IN JUNE OF 2018 UTILIZING THE FOLLOWING STANDARDS:

- 1) FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 7.0, 2010. L.M. VASILAS, G.W. HURT, AND C.V. NOBLE (EDS.). UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, IN COOPERATION WITH THE NATIONAL TECHNICAL COMMITTEE FOR HYDRIC SOILS.
- 2) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 3. APRIL 2004. NEWPPC WETLANDS WORKGROUP. WILMINGTON, MA 01887.
- 3) NORTH AMERICAN DIGITAL FLORA: NATIONAL WETLAND PLANT LIST, VERSION 2.1.0 (HTTP://WETLAND.PLANTS.USACE.ARMY.MIL/). U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH AND DEVELOPMENT CENTER, COLD REGIONS RESEARCH AND ENGINEERING LABORATORY, HANOVER, NH, AND BONAP, CHAPEN HILL.
- 4) STATE OF NEW HAMPSHIRE 2014 WETLAND PLANT LIST. LICHVAR, R.W., M. BUTTERWICH, N.C. MELVIN, AND W.N. KIRCHNER. 2014. THE NATIONAL WETLAND PLANT LIST. 2014 UPDATE OF WETLAND RATINGS. PHYTONEURON 2014-411-42.
- 5) CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, JANUARY 1987, WETLANDS RESEARCH PROGRAM TECHNICAL REPORT Y-87-1.
- 6) REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, NORTH-CENTRAL AND NORTHEAST REGION, JANUARY 2012, VERSION 2. U.S. ARMY CORPS OF ENGINEERS, ENVIRONMENTAL LABORATORY ERDC/EL TR-12-1.
- 7) CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES. DECEMBER 1979. L. COWARDIN, V. CARTER, F. GOLET, AND E. LAROE. US DEPARTMENT OF THE INTERIOR. FISH AND WILDLIFE SERVICE. FWS/OBS-79/31.



STONEY RIDGE ENVIRONMENTAL, LLC.  
CYNTHIA BALCIUS, CWS #61

#### LEGEND:

- IRON BOUND (FND OR SET)
- IRON PIPE (FND)
- IRON BOUND/REBAR (FND)
- CEDAR POST (FND)
- DRILL HOLE (FND OR SET)
- UTILITY POLE
- TREE W/ BARB WIRE

- PROPOSED BOUNDARY LINE
- WETLAND LINE
- 50' WETLAND BUFFER
- PROPOSED EASEMENT LINE
- EXISTING EASEMENT LINE
- EXISTING PERIMETER BOUNDARY

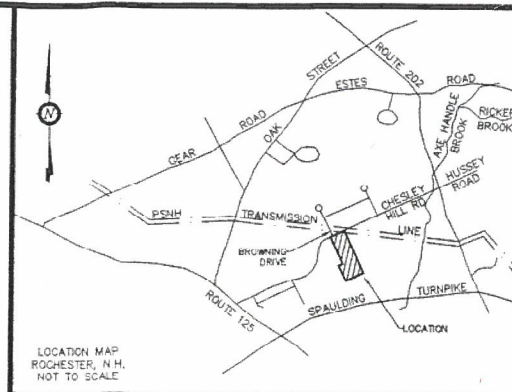
#### PLAN REFERENCES:

- 1) "SUBDIVISION PLAN, BIRCHWOOD PONDS RESIDENTIAL DEVELOPMENT, LAND OF MAKRIS REAL ESTATE DEVELOPMENT, LLC" SHEET: 1-6 OF 13 BY: DOUCET SURVEY INC. DATED: JANUARY 9, 2017 PLAN NOT YET RECORDED, ON FILE AT THIS OFFICE
- 2) "SUBDIVISION OF LAND, ROCHESTER, N.H., FOR VINCENT J. & LAVERGNE T. DENOBLE" BY: J.W. DUGIN ASSOCIATES, INC. DATED: JANUARY 24, 1986 S.C.R.D.: PLAN # 29-18
- 3) "SUBDIVISION OF LAND, ROCHESTER, N.H., FOR VINCENT J. & LAVERGNE T. DENOBLE" BY: DOUCET SURVEY INC. DATED: JULY 1986 S.C.R.D.: PLAN # 29A-74
- 4) "SUBDIVISION PLAN, 128 CHESLEY HILL ROAD, TAX MAP 246, LOT 26, ROCHESTER, NH, FOR JAN L. JONES" BY: NORWAY PLAINS ASSOCIATES, INC. DATED: JANUARY 2005 S.C.R.D.: PLAN # 80-8
- 5) "SUBDIVISION OF LAND, GROVE STREET, ROCHESTER, N.H., FOR RAMSEY REALTY CO., INC." BY: NORWAY PLAINS ASSOCIATES, INC. SHEET: SEPTEMBER, 1992 S.C.R.D.: PLAN # 45-25
- 6) "SUBDIVISION PLAN OF LAND ON CHESLEY - HILL - ROAD, ROCHESTER, N.H., FOR RONALD P. LAVALLEE" BY: JOHN W. RANACAN DATED: NOVEMBER 13, 1971 S.C.R.D.: POCKET 9, FOLDER 1, NUMBER 4

#### NOTES CONT.:

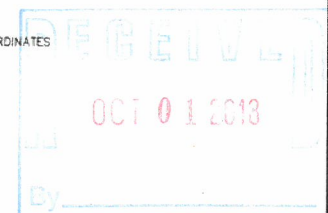
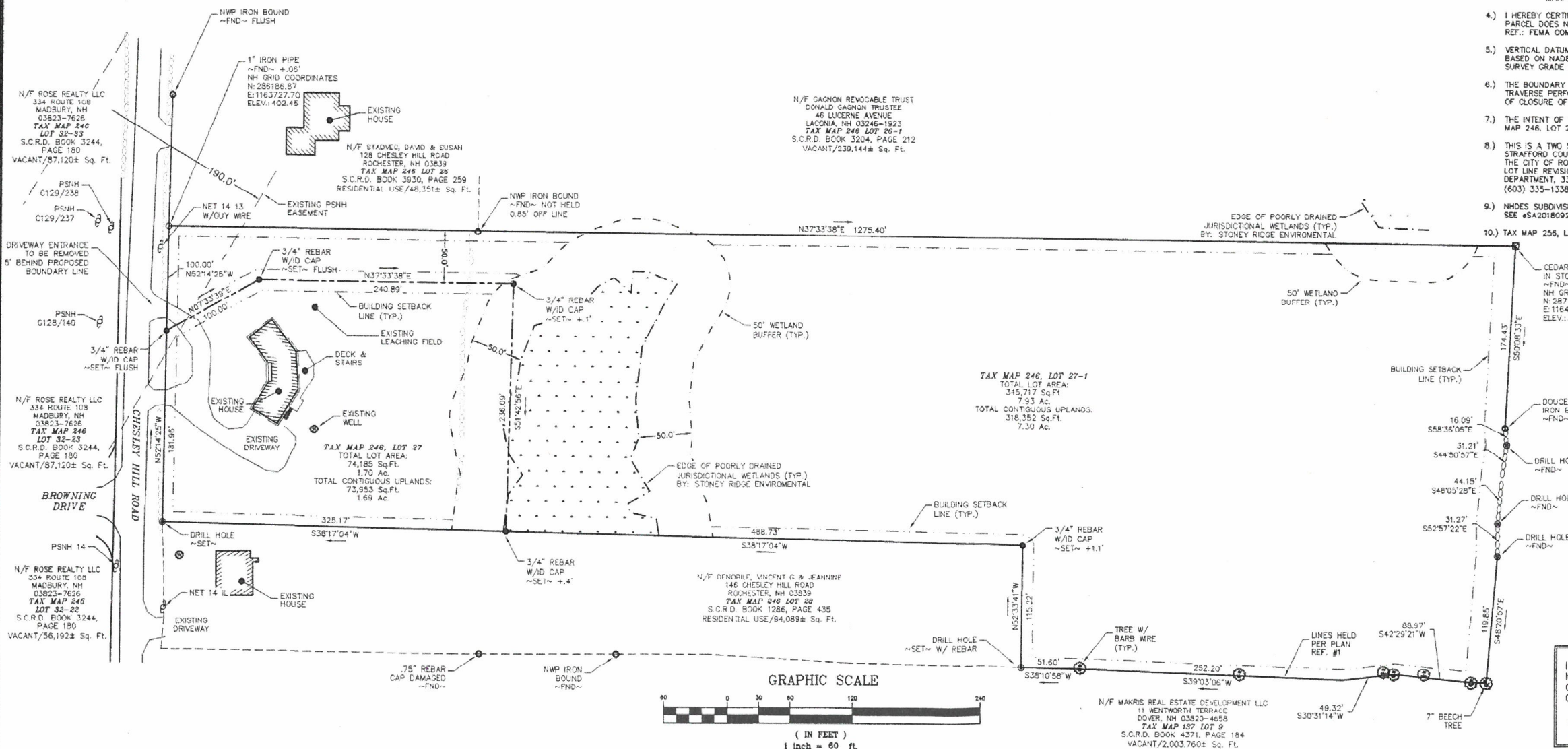
- 11.) A CONDITIONAL USE PER WAS REQUESTED AN APPROVED ON AUGUST 6, 2018 TO ALLOW THE DRIVEWAY FOR LOT 27-1 TO CROSS THROUGH THE 50' BUFFER. SEE PLANS ON FILE AT THE ROCHESTER PLANNING OFFICE.
- 12.) ALL UTILITIES TO THE PROPOSED LOT ARE TO BE PLACED UNDERGROUND.

WHETHER OR NOT OTHERWISE EXPRESSLY RECITED ON THIS SUBDIVISION PLAN, THE SUBDIVISION APPROVAL GRANTED IS CONDITIONED ON FAITHFUL AND DILIGENT ADHERENCE BY THE OWNER/SUBDIVIDER/DEVELOPER OF ALL TERMS, CONDITIONS, PROVISIONS AND SPECIFICATIONS OF THE CITY OF ROCHESTER LAND SUBDIVISION REGULATIONS AS AMENDED OR AS MAY LATER BE AMENDED, IN EFFECT ON THE DATE OF APPROVAL, UNLESS OR EXCEPT INsofar AS EXPRESSLY WAIVED, IN ANY PARTICULAR, BELOW, NON - ADHERENCE MAY RESULT IN A REVOCATION OF APPROVAL. ANY VARIATION FROM THE APPROVED PLAN WILL REQUIRE A RESUBMISSION FOR SUBDIVISION APPROVAL.



#### NOTES:

- 1.) OWNER: DAVID & DESTINY GROEN 138 CHESLEY HILL ROAD ROCHESTER, NH 03839  
a.) TAX MAP 246, LOT 27  
b.) EXISTING LOT AREA: 419,902 Sq.Ft., 9.63 Ac.  
PROPOSED LOT AREAS:  
LOT 27: 74,185 Sq.Ft., 1.70 Ac.  
LOT 27-1: 345,717 Sq.Ft., 7.93 Ac.
- 2.) S.C.R.D. BOOK 4254, PAGE 769
- 3.) ZONING: R1 / RESIDENTIAL-1 DISTRICT.  
FRONTAGE ~ 100.0'  
MINIMUM LOT SIZE ~ 10,000 Sq. Ft.  
FRONT SETBACK ~ 10.0'  
REAR SETBACK ~ 20.0'  
SIDE SETBACK ~ 10.0'  
DRIVEWAY SETBACK ~ 5.0' FROM SIDE  
MAX. LOT COVERAGE ~ 35%  
MAX. BUILDING FOOTPRINT ~ 30%  
MAX. BUILDING HEIGHT ~ 35.0'
- 4.) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE & BELIEF, THIS PARCEL DOES NOT FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF.: FEMA COMMUNITY #330150, MAP #330170021D, DATED MAY 17, 2005.
- 5.) VERTICAL DATUM BASED ON NAVD83 ELEVATIONS. HORIZONTAL COORDINATES BASED ON NAD83. COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS RECEIVERS.
- 6.) THE BOUNDARY LINES SHOWN ON THIS PLAN ARE THE RESULT OF A CLOSED TRAVERSE PERFORMED BY THIS OFFICE IN JUNE OF 2018, WITH AN ERROR OF CLOSURE OF 1 PART IN 10,000
- 7.) THE INTENT OF THIS PLAN IS TO SHOW A TWO LOT SUBDIVISION OF TAX MAP 246, LOT 27.
- 8.) THIS IS A TWO SHEET PLAN SET WITH SHEET ONE BEING RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS. SHEET TWO WILL BE ON FILE AT THE CITY OF ROCHESTER OR THIS OFFICE. FOR MORE INFORMATION ON THIS LOT LINE REVISION, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867, (603) 335-1338.
- 9.) NHDES SUBDIVISION APPROVAL WAS RECEIVED FOR TAX MAP 246, LOT 27 SEE #SA2018092004.
- 10.) TAX MAP 256, LOT 27-1 WILL USE THE ADDRESS, 132 CHESLEY HILL ROAD.



FRONTAGE CHART:  
LOT 27: 181.96'  
LOT 27-1: 100.00'

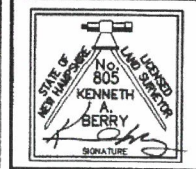
FINAL APPROVAL  
BY  
ROCHESTER PLANNING BOARD  
CERTIFIED BY: [Signature]  
DATE: 10/5/18

I CERTIFY THAT THIS PLAT EXCEEDS THE MINIMUM REQUIREMENT FOR ACCURACY AND COMPLETENESS OF THE STATE OF N.H. AND OF THE CITY OF ROCHESTER, N.H. - 1:10,000 -  
Kenneth A. Berry 9-26-18  
KENNETH A. BERRY LLS 805 DATE

REVISION	DATE	DESCRIPTION
#3	9-28-18	REVISION PER N.O.D. SHOWN BOUNDS SET
#2	9-26-18	SHOWN BOUNDS SET
#1	7-24-18	REVISED PER CLIENT REQUEST
		REVISED PER TRG COMMENTS

SUBDIVISION PLAN  
LAND OF  
DAVID & DESTINY GROEN  
138 CHESLEY HILL ROAD  
ROCHESTER, NH 03839  
TAX MAP 246 LOT 27

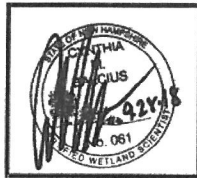
BERRY SURVEYING & ENGINEERING  
335 SECOND CROWN POINT ROAD  
BARRINGTON, NH 03825 (603) 332-2863  
SCALE: 1 IN. EQUALS 60 FT.  
DATE: JULY 10, 2018  
FILE NO.: DB 2018 - 068 (CRB)





JURISDICTIONAL WETLANDS WERE DELINEATED BY CYNTHIA BALCIUS OF STONEY RIDGE ENVIRONMENTAL LLC IN JUNE OF 2018 UTILIZING THE FOLLOWING STANDARDS:

- 1) FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, VERSION 7.0, 2010, L.M. VASILAS, G.W. HURT, AND C.V. NOBLE (EDS.), UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, IN COOPERATION WITH THE NATIONAL TECHNICAL COMMITTEE FOR HYDRIC SOILS.
- 2) FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 3, APRIL 2004, NEWFCC WETLANDS WORKGROUP, WILMINGTON, MA 01897.
- 3) NORTH AMERICAN DIGITAL FLORA: NATIONAL WETLAND PLANT LIST, VERSION 2.1.0 (HTTP://WETLAND\_PLANTS.USACE.ARMY.MIL). U.S. ARMY CORPS OF ENGINEERS, ENGINEER RESEARCH AND DEVELOPMENT CENTER, COLD REGIONS RESEARCH AND ENGINEERING LABORATORY, HANOVER, NH, AND BONAP, CHAPEN HILL.
- 4) STATE OF NEW HAMPSHIRE 2014 WETLAND PLANT LIST, LICHVAR, R.W., M. BUTTERWICH, N.C. MELVIN, AND W.N. KIRCHNER, 2014, THE NATIONAL WETLAND PLANT LIST, 2014 UPDATE OF WETLAND RATINGS, PHYTONURON 2014-41:1-42.
- 5) CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, JANUARY 1987, WETLANDS RESEARCH PROGRAM TECHNICAL REPORT T-87-1.
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- 7) CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES, DECEMBER 1979, L. COWARDIN, V. CARTER, F. GOLET, AND E. LAROE, U.S. DEPARTMENT OF THE INTERIOR, FISH AND WILDLIFE SERVICE, FWS/OBS-79/31.



STONEY RIDGE ENVIRONMENTAL, LLC.  
CYNTHIA BALCIUS, CWS #61

WHETHER OR NOT OTHERWISE EXPRESSLY RECITED ON THIS SUBDIVISION PLAN, THE SUBDIVISION APPROVAL GRANTED IS CONDITIONED ON FAITHFUL AND DILIGENT ADHERENCE BY THE OWNER/SUBDIVIDER/DEVELOPER OF ALL TERMS, CONDITIONS, PROVISIONS AND SPECIFICATIONS OF THE CITY OF ROCHESTER LAND SUBDIVISION REGULATIONS AS AMENDED OR AS MAY LATER BE AMENDED, IN EFFECT ON THE DATE OF APPROVAL, UNLESS OR EXCEPT INsofar AS EXPRESSLY WAIVED, IN ANY PARTICULAR, BELOW. NON-ADHERENCE MAY RESULT IN A REVOCATION OF APPROVAL, ANY VARIATION FROM THE APPROVED PLAN WILL REQUIRE A RESUBMISSION FOR SUBDIVISION APPROVAL.

#### TEST PIT DATA:

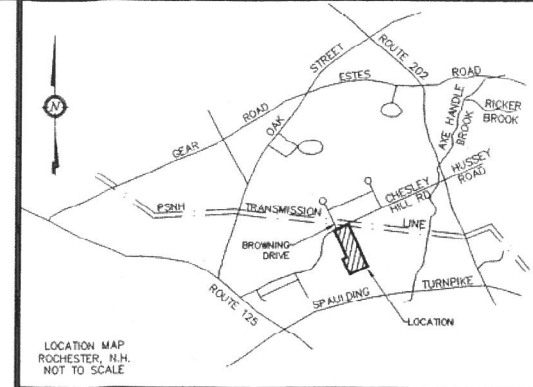
- 1.) 0-4" 10YR3/2, FINE SANDY LOAM, FRIABLE, GRANULAR  
4-20" 10YR4/6, FINE SANDY LOAM, FRIABLE, GRANULAR  
20-27" 10YR5/8, FINE SANDY LOAM, ANGULAR BLOCKY, FRIABLE  
27-48" 2.5Y 5/3, FINE SANDY LOAM, ANGULAR BLOCKY, FRIABLE  
COBBLES THROUGHOUT  
E.S.H.W.T. @ 27"  
NO REFUSAL  
NO GROUND WATER  
P = 8 MIN/W
- 2.) 0-4" 10YR3/2, FINE SANDY LOAM, FRIABLE, GRANULAR  
4-20" 10YR4/6, FINE SANDY LOAM, FRIABLE, GRANULAR  
20-23" 10YR5/8, FINE SANDY LOAM, ANGULAR BLOCKY, FRIABLE  
23-48" 2.5Y 6/2, FINE SANDY LOAM, ANGULAR BLOCKY, FRIABLE  
E.S.H.W.T. @ 23"  
NO REFUSAL  
NO GROUND WATER  
P = 8 MIN/W
- 2.) 0-6" 10YR3/2, FINE SANDY LOAM, FRIABLE, GRANULAR  
6-20" 10YR4/6, FINE SANDY LOAM, FRIABLE, GRANULAR  
20-25" 10YR6/8, FINE SANDY LOAM, ANGULAR BLOCKY, FRIABLE  
REDOX @ 25"  
25-48" 2.5Y 6/4, FINE SANDY LOAM, ANGULAR BLOCKY, FIRM IN HOLE  
E.S.H.W.T. @ 25"  
NO REFUSAL  
NO GROUND WATER  
P = 10 MIN/W

#### PLAN REFERENCES:

- 1.) "SUBDIVISION PLAN, BIRCHWOOD PONDS RESIDENTIAL DEVELOPMENT, LAND OF MAKRIS REAL ESTATE DEVELOPMENT, LLC" SHEET: 1-6 OF 13 BY: DOUCETTE SURVEY INC. DATED: JANUARY 9, 2017 PLAN NOT YET RECORDED, ON FILE AT THIS OFFICE.
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- 6.) "SUBDIVISION PLAN OF LAND ON CHESLEY - HILL - ROAD, ROCHESTER, N.H., FOR RONALD P. LAVALLÉE" BY: JOHN N. RAMAGAN DATED: NOVEMBER 13, 1971 S.C.R.D.: POCKET 9, FOLDER 1, NUMBER 4

#### LOT LOADING:

AREA OF LOT OUTSIDE WELL RADIUS = 58,514 Sq.Ft., 1.297 Ac.  
SOIL FACTOR = 1.6  
AREA = Q/2000 x F  
Q = 1621 GPD



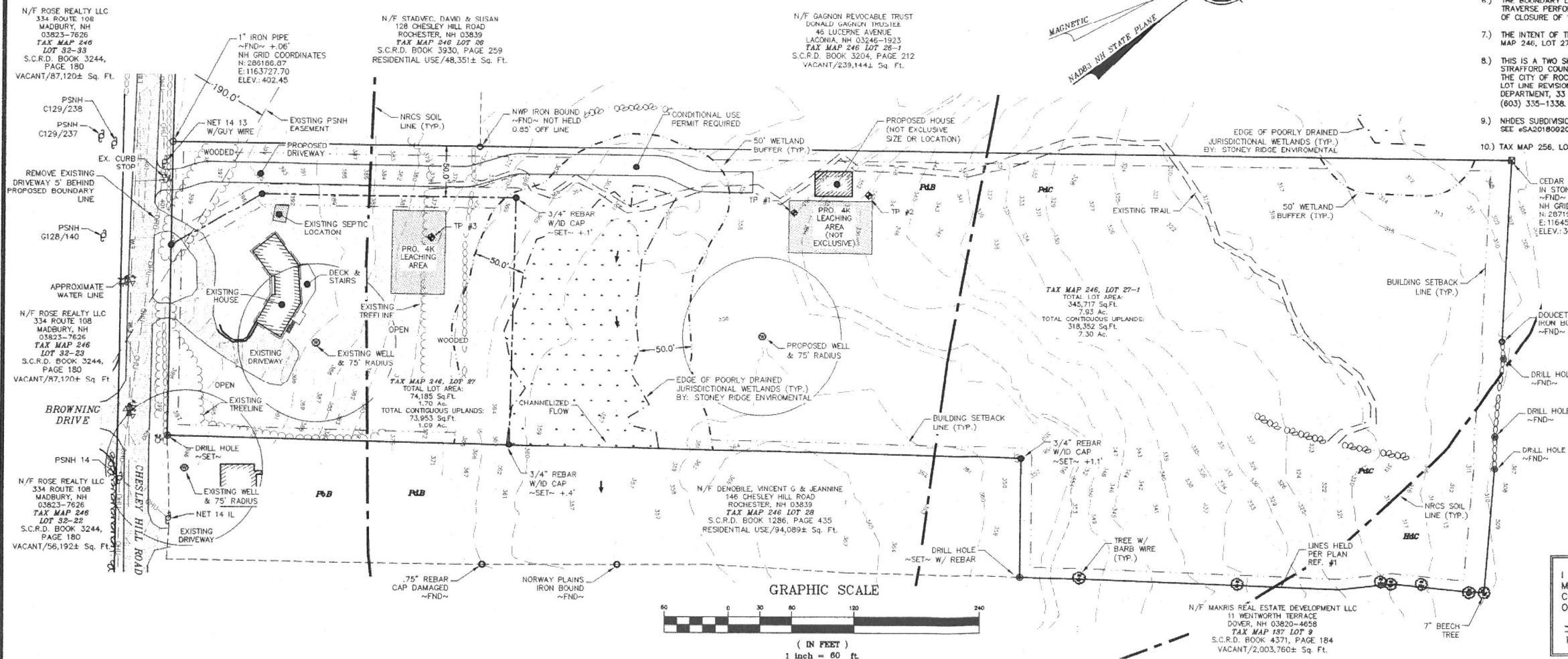
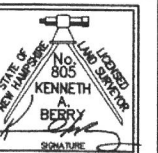
#### NOTES:

- 1.) OWNER: DAVID & DESTINY GREEN 138 CHESLEY HILL ROAD ROCHESTER, NH 03839  
a.) TAX MAP 246, LOT 27  
b.) EXISTING LOT AREA: 419,902 Sq.Ft., 9.63 Ac.  
PROPOSED LOT AREAS:  
LOT 27: 74,189 Sq.Ft., 1.70 Ac.  
LOT 27-1: 345,717 Sq.Ft., 7.93 Ac.
- 2.) S.C.R.D. BOOK 4254, PAGE 769
- 3.) ZONING: R1 / RESIDENTIAL-1 DISTRICT:  
FRONTAGE ~ 100.0'  
MINIMUM LOT SIZE ~ 10,000 Sq. Ft.  
FRONT SETBACK ~ 10.0'  
REAR SETBACK ~ 20.0'  
SIDE SETBACK ~ 10.0'  
DRIVEWAY SETBACK ~ 5.0' FROM SIDE  
MAX. LOT COVERAGE ~ 35%  
MAX. BUILDING FOOTPRINT ~ 30%  
MAX. BUILDING HEIGHT ~ 35.0'
- 4.) I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE & BELIEF, THIS PARCEL DOES NOT FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD REF.: FEMA COMMUNITY #330150, MAP #33017C02110, DATED MAY 17, 2005.
- 5.) VERTICAL DATUM BASED ON NAVD83 ELEVATIONS. HORIZONTAL COORDINATES BASED ON NAD83. COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS RECEIVERS.
- 6.) THE BOUNDARY LINES SHOWN ON THIS PLAN ARE THE RESULT OF A CLOSED TRAVERSE PERFORMED BY THIS OFFICE IN JUNE OF 2018, WITH AN ERROR OF CLOSURE OF 1 PART IN 10,000
- 7.) THE INTENT OF THIS PLAN IS TO SHOW A TWO LOT SUBDIVISION OF TAX MAP 246, LOT 27.
- 8.) THIS IS A TWO SHEET PLAN SET WITH SHEET ONE BEING RECORDED AT THE STRAFFORD COUNTY REGISTRY OF DEEDS. SHEET TWO WILL BE ON FILE AT THE CITY OF ROCHESTER OR THIS OFFICE. FOR MORE INFORMATION ON THIS LOT LINE REVISION, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867, (603) 335-1338.
- 9.) NHDES SUBDIVISION APPROVAL WAS RECEIVED FOR TAX MAP 246, LOT 27 SEE #SA2018002004.
- 10.) TAX MAP 256, LOT 27-1 WILL USE THE ADDRESS, 132 CHESLEY HILL ROAD.

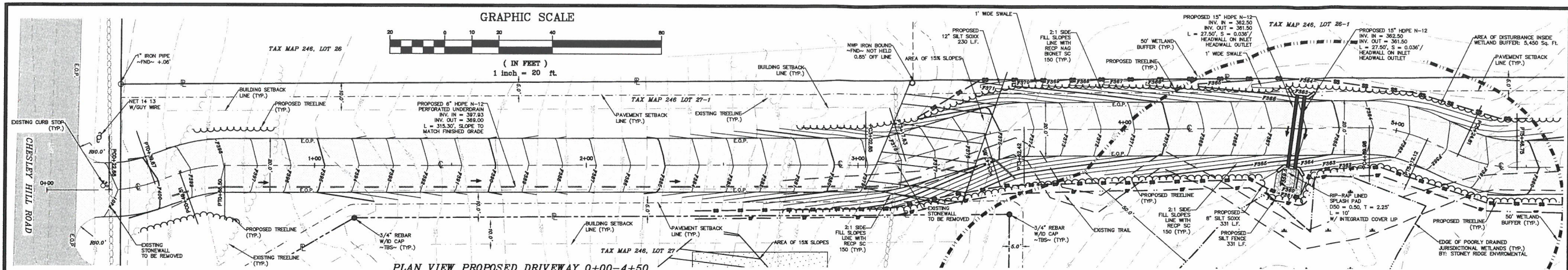
REVISION PER N.O.D. SHOWN BOUNDS SET		SHOWED BOUNDS SET		REVISED PER CLIENT REQUEST		REVISED PER TRG COMMENTS	
#	DATE	#	DATE	#	DATE	#	DATE
3	9-28-18	2	9-28-18	1	7-2-18		

SUBDIVISION PLAN (TOPOGRAPHY)  
LAND OF  
DAVID & DESTINY GREEN  
138 CHESLEY HILL ROAD  
ROCHESTER, NH 03839  
TAX MAP 246 LOT 27

BERRY SURVEYING & ENGINEERING  
335 SECOND CROWN POINT ROAD  
BARRINGTON, NH 03825 (603) 332-2863  
SCALE: 1 IN. EQUALS 60 FT.  
DATE: JULY 10, 2018  
FILE NO.: DB 2018 - 088 (CRB)

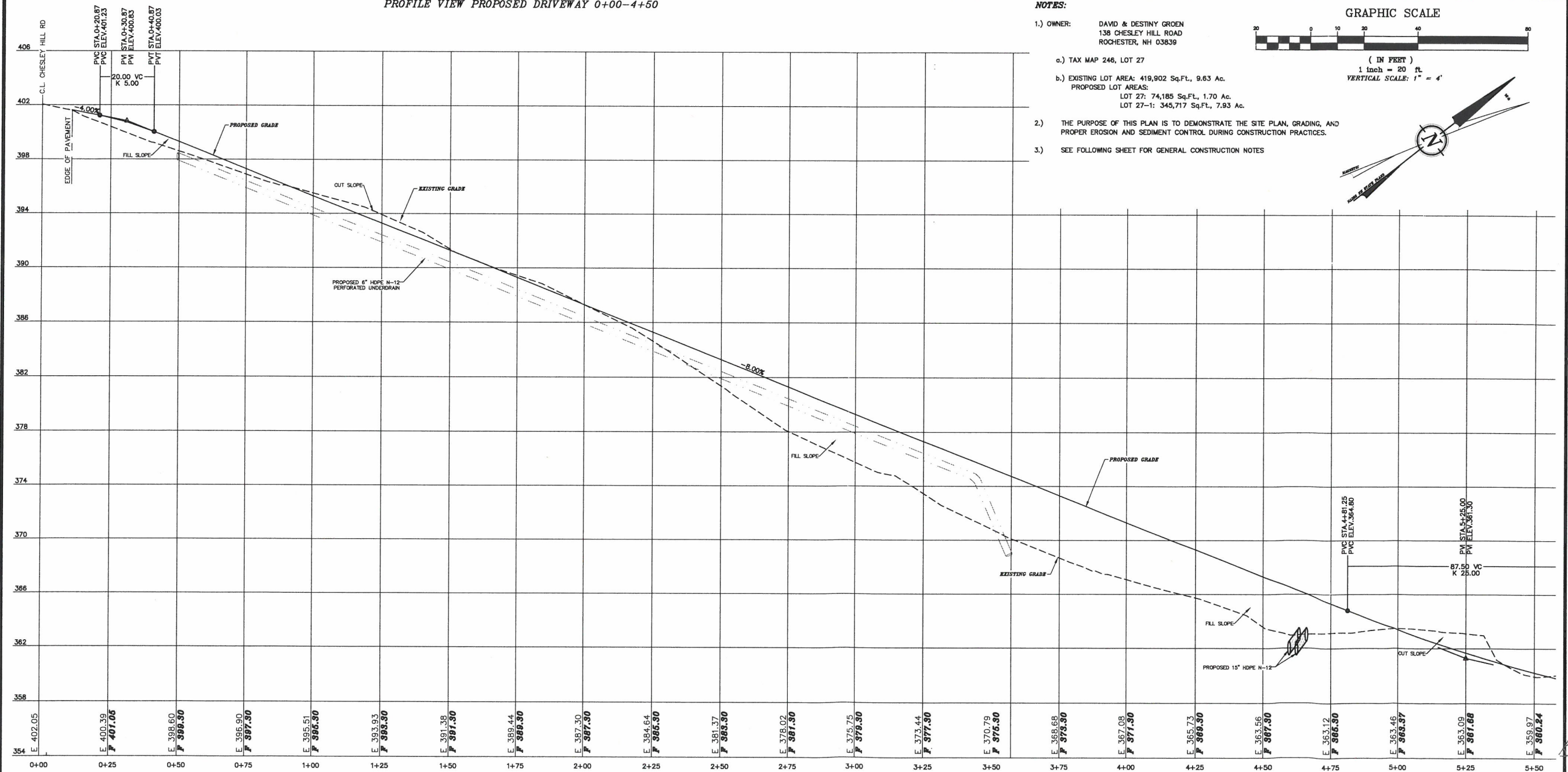






PLAN VIEW PROPOSED DRIVEWAY 0+00-4+50

PROFILE VIEW PROPOSED DRIVEWAY 0+00-4+50



**NOTES:**

1.) OWNER: DAVID & DESTINY GROEN  
138 CHESLEY HILL ROAD  
ROCHESTER, NH 03839

a.) TAX MAP 246, LOT 27

b.) EXISTING LOT AREA: 419,902 Sq.Ft., 9.63 Ac.  
PROPOSED LOT AREAS:  
LOT 27: 74,185 Sq.Ft., 1.70 Ac.  
LOT 27-1: 345,717 Sq.Ft., 7.93 Ac.

2.) THE PURPOSE OF THIS PLAN IS TO DEMONSTRATE THE SITE PLAN, GRADING, AND PROPER EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION PRACTICES.

3.) SEE FOLLOWING SHEET FOR GENERAL CONSTRUCTION NOTES

REVISION		DATE	DESCRIPTION
#4	10-3-18		REVISED UNDERDRAIN
#3	9-28-18		REVISION PER N.O.D. SHOWED BOUNDS SET
#2	9-26-18		SHOWED BOUNDS SET
#1	7-24-18		REVISED PER CLIENT REQUEST
			REVISED PER TRG COMMENTS

PLAN AND PROFILE PROPOSED DRIVEWAY 0+00-4+50

LAND OF  
DAVID & DESTINY GROEN  
138 CHESLEY HILL ROAD  
ROCHESTER, NH 03839  
TAX MAP 246 LOT 27

BERRY SURVEYING & ENGINEERING

335 SECOND CROWN POINT ROAD  
BARRINGTON, NH 03825 (603)332-2863

SCALE : 1 IN. EQUALS 20 FT.

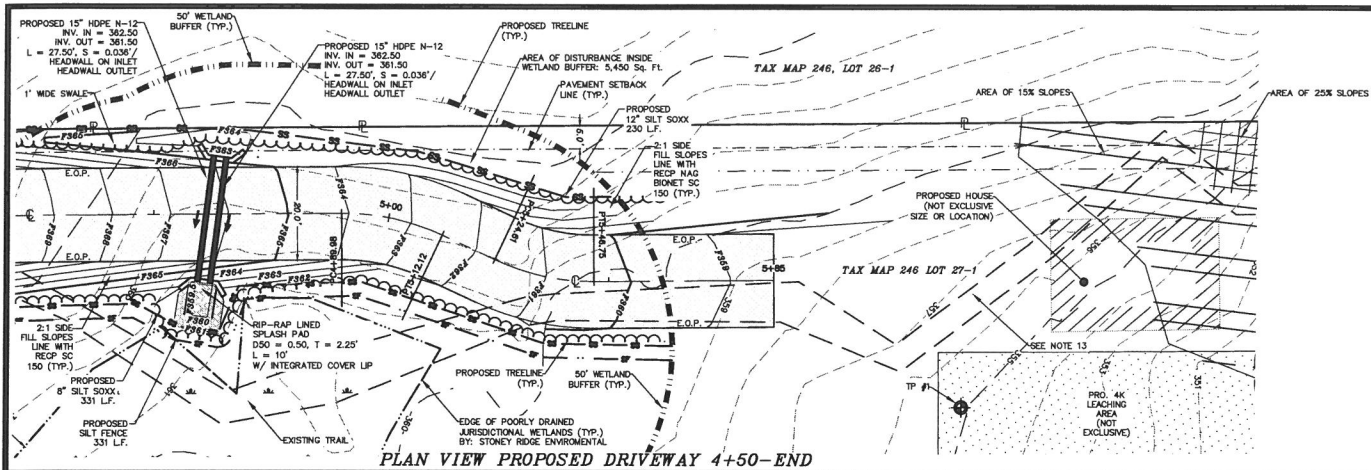
DATE : JULY 10, 2018

FILE NO. : DB 2018 - 068 (CRB)

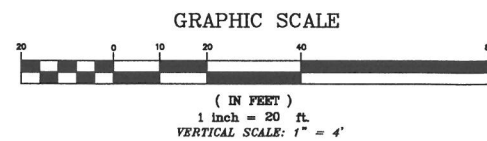
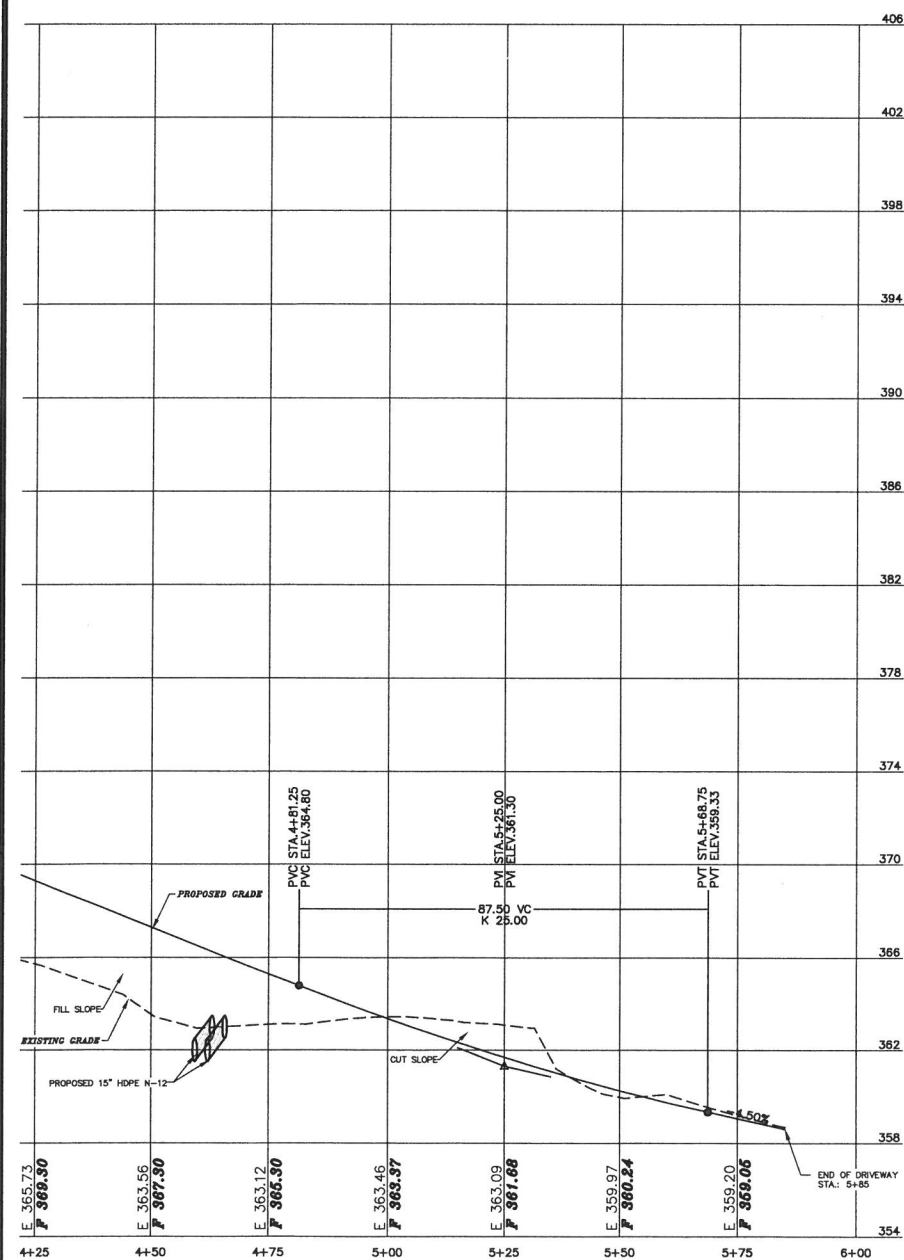
STATE OF NEW HAMPSHIRE

KENNETH BERRY

PROFESSIONAL ENGINEER

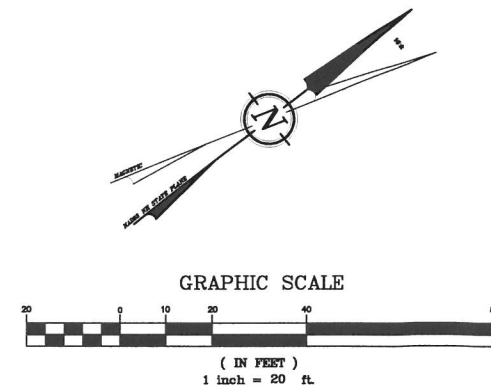


PLAN VIEW PROPOSED DRIVEWAY 4+50-END



# NOTES:

- OWNER: DAVID & DESTINY GROEN  
138 CHESLEY HILL ROAD  
ROCHESTER, NH 03839
- TAX MAP 246, LOT 27
- EXISTING LOT AREA: 419,902 Sq.Ft., 9.63 Ac.  
PROPOSED LOT AREAS:  
LOT 27: 74,185 Sq.Ft., 1.70 Ac.  
LOT 27-1: 345,717 Sq.Ft., 7.93 Ac.
- THE PURPOSE OF THIS PLAN IS TO DEMONSTRATE THE SITE PLAN, GRADING, AND PROPER EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION PRACTICES.
- UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVE AND BELOW GROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY UTILITY CONFLICTS SHOULD BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.
- THE CONTRACTOR SHALL CALL AND COORDINATE WITH DIGSAFE 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.
- SEE DETAILS CONCERNING SITE LAYOUT, DRAINAGE, UTILITY AND SEDIMENT AND EROSION CONTROLS.
- ALL DRAINAGE PIPE IS TO BE HDPE N-12. INDIVIDUAL PIPE SIZES ARE SPECIFIED ON GRADING AND DETAIL PLAN SHEETS.
- ALL ELEVATIONS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE DESIGN ENGINEER IS TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY. TEMPORARY BENCHMARKS (T.B.M.) ARE TO BE PROVIDED BY THE DESIGN ENGINEER.
- UPON FINAL COMPLETION AND 85% STABILIZATION, THE DRAINAGE SYSTEM IS TO BE CLEANED OF ALL DEBRIS. SEDIMENT CONTROL PRACTICES REMOVED AND DISPOSED OF PROPERLY, AND ANNUAL MAINTENANCE PERFORMED ON ALL DRAINAGE PRACTICES.
- ALL UNPAVED AREAS ARE TO RECEIVE 4" QUALITY LOAM AND SEED.
- SILT FENCE MAY BE SUBSTITUTED WITH SILT SOXX OR EROSION CONTROL MIX BERM. SILT FENCE IS NOT A SUBSTITUTE FOR SILT SOXX, OR APPROVED EQUAL.
- DURING LOT DEVELOPMENT, THE BUILDERS ARE TO ENSURE NO TRACKING TAKES PLACE WITHIN THE DRIVEWAY, THAT RESIDENTIAL WASTE IS TAKEN CARE OF, AND GENERAL CLEAN UP & HOUSE KEEPING ITEMS ARE ADHERED TO.
- SILT SOCK AND SILT FENCE MAY BE REPLACED WITH MULCH BERM PER THE CONSTRUCTION DETAILS.
- DRAINAGE TO BE TAKEN INTO CONSIDERATION AT THE TIME OF HOUSE/GARAGE GRADING AND SEPTIC DESIGN.

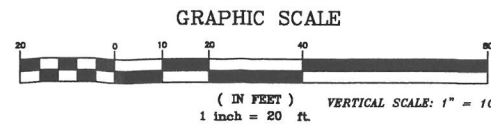
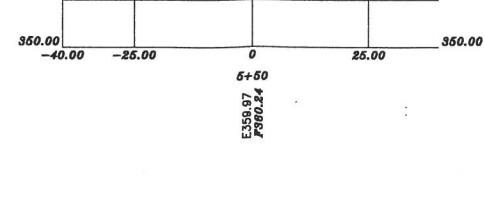
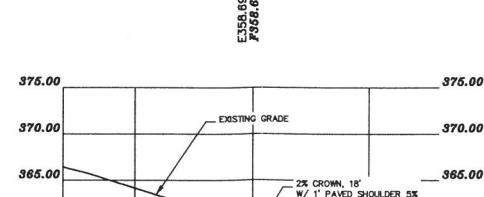
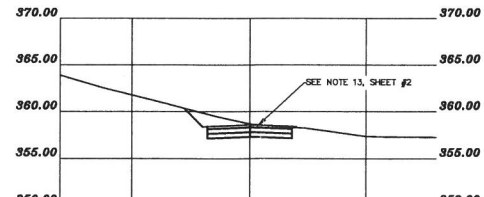
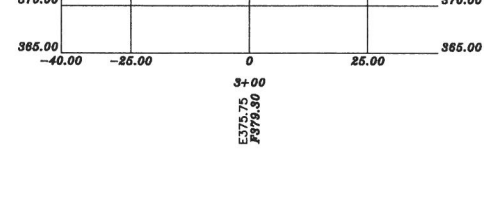
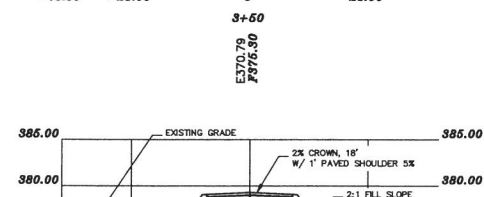
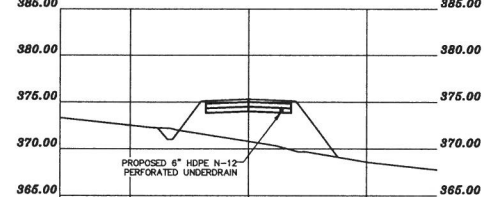
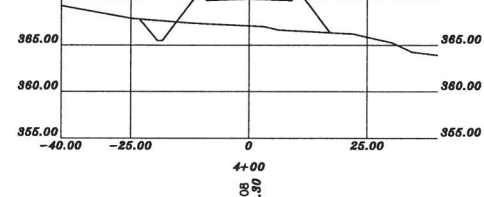
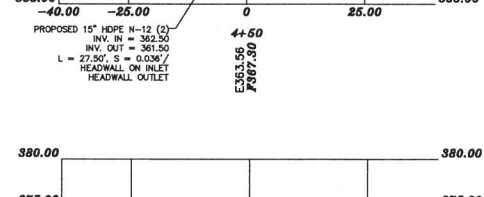
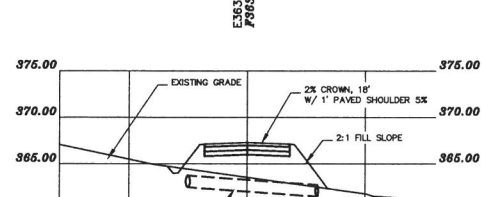
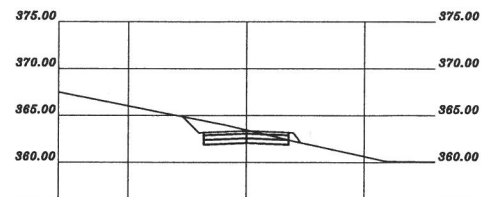
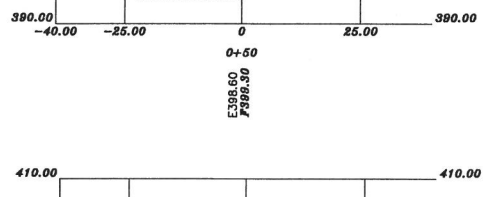
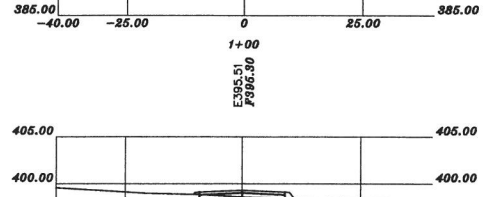
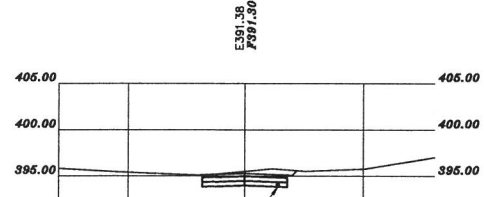
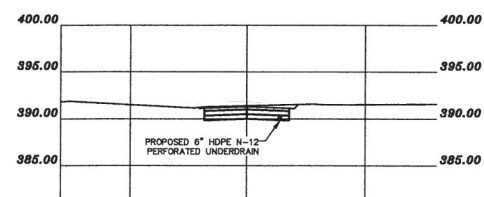
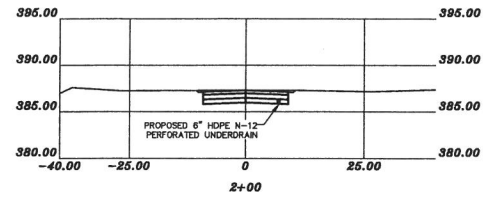
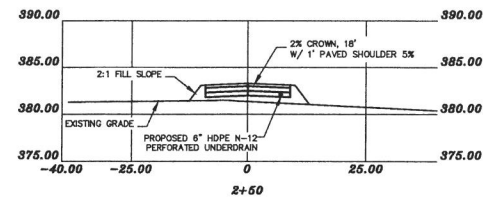


REVISION	DATE	DESCRIPTION
#4	10-3-18	REVISED UNDERDRAIN
#3	9-28-18	REVISION PER N.O.D. SHOWED BOUNDS SET
#2	9-26-18	SHOWED BOUNDS SET
#1	7-24-18	REVISED PER CLIENT REQUEST
		REVISED PER TRG COMMENTS

PLAN AND PROFILE PROPOSED DRIVEWAY 4+50-END  
LAND OF  
DAVID & DESTINY GROEN  
138 CHESLEY HILL ROAD  
ROCHESTER, NH 03839  
TAX MAP 246 LOT 27

BERRY SURVEYING & ENGINEERING  
335 SECOND CROWN POINT ROAD  
BARRINGTON, NH 03825 (603)332-2863  
SCALE : 1 IN. EQUALS 20 FT.  
DATE : JULY 10, 2018  
FILE NO. : DB 2018 - 068 (CRB)





REVISION	DATE	DESCRIPTION
#4	10-3-18	REVISED UNDERDRAIN
#3	9-28-18	REVISION PER N.O.D. SHOWED BOUNDS SET
#2	9-26-18	SHOWED BOUNDS SET
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CROSS SECTIONS PROPOSED DRIVEWAY  
LAND OF  
DAVID & DESTINY GROEN  
138 CHESLEY HILL ROAD  
ROCHESTER, NH 03839  
TAX MAP 246 LOT 27

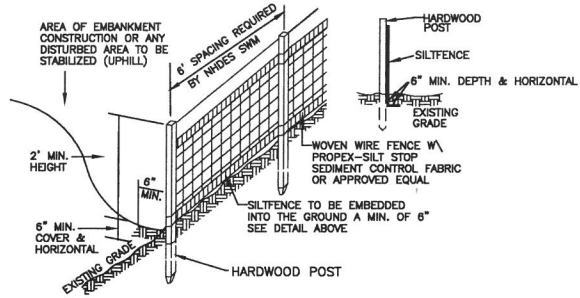
BERRY SURVEYING & ENGINEERING  
335 SECOND CROWN POINT ROAD  
BARRINGTON, NH 03825 (603) 332-2863  
SCALE : 1 IN. EQUALS 20 FT.  
DATE : JULY 10, 2018  
FILE NO. : DB 2018 - 068 (CRB)

STATE OF NEW HAMPSHIRE  
KENNETH A. BERRY  
No. 14243  
LICENSED PROFESSIONAL ENGINEER

SHEET 3 OF 5



E1



SILT FENCE CONSTRUCTION SPECIFICATIONS

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES AND FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP MID AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 6" THE FENCE POSTS SHALL BE A MINIMUM 48" LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF. SEE MAINTENANCE NOTE BELOW, REMOVAL OF SEDIMENT REQUIRED AT A DEPTH OF 6-INCHES.
- PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.
- SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER.
- THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND RE-VEGETATED.
- TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, SILT FENCE, PAGE 90.

SILT FENCE MAINTENANCE

- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH SIX-INCHES IN DEPTH.
- SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

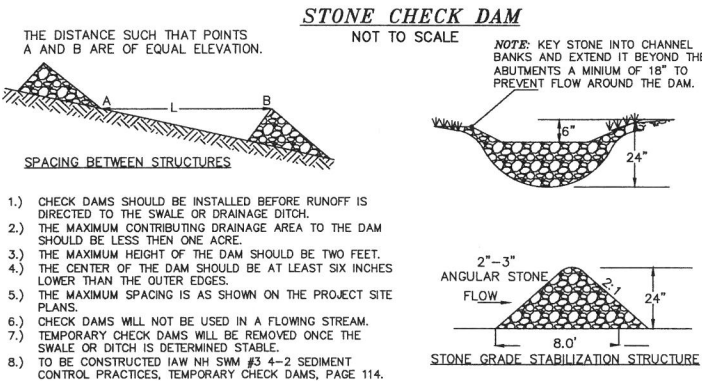
SILT FENCE DETAIL  
NOT TO SCALE

E5

TABLE 7-24--RECOMMENDED RIP RAP GRADATION RANGES

d50 SIZE=	0.5	FEET	6	INCHES
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE (INCHES) FROM	TO	SIZE OF STONE (INCHES) FROM	TO
100%	9	12		
85%	8	11		
50%	6	9		
15%	2	3		

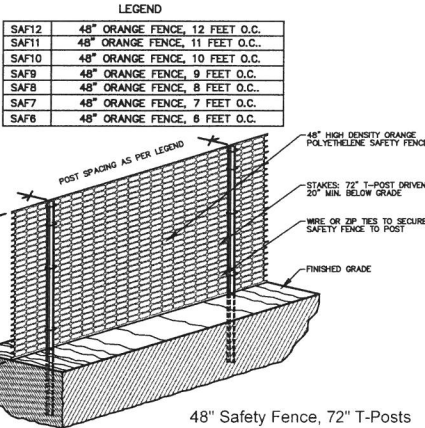
E9



- CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE OR DRAINAGE DITCH.
- THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE DAM SHOULD BE LESS THAN ONE ACRE.
- THE MAXIMUM HEIGHT OF THE DAM SHOULD BE TWO FEET.
- THE CENTER OF THE DAM SHOULD BE AT LEAST SIX INCHES LOWER THAN THE OUTER EDGES.
- THE MAXIMUM SPACING IS AS SHOWN ON THE PROJECT SITE PLANS.
- CHECK DAMS WILL NOT BE USED IN A FLOWING STREAM.
- TEMPORARY CHECK DAMS WILL BE REMOVED ONCE THE SWALE OR DITCH IS DETERMINED STABLE.
- TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY CHECK DAMS, PAGE 114.

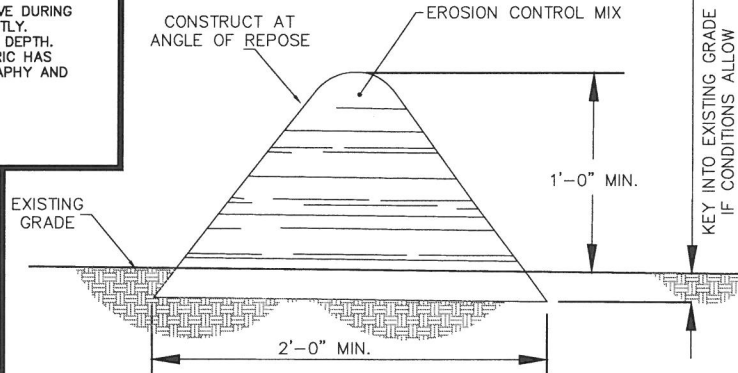
E2

CONSTRUCTION SAFETY FENCE  
NOT TO SCALE



E6

EROSION CONTROL MIX BERM  
NOT TO SCALE

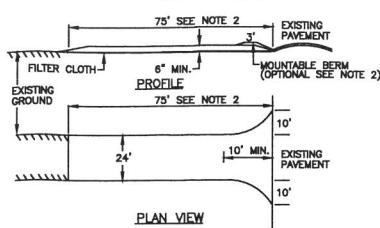


EROSION CONTROL MIX BERMS SHALL BE USED ONLY AS FOLLOWS:

- BERMS SHALL BE USED IN AREAS WHERE EROSION WILL OCCUR ONLY IN THE FORM OF SHEET EROSION AND THERE IS NO CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY ABOVE THE BERM.
- THE BERMS SHALL BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE.
- THE BERMS SHALL BE INSTALLED ON SLOPES LESS THAN 5%.
- SUBJECT TO (E), BELOW, THE MIX SHALL HAVE AN ORGANIC PORTION BETWEEN 80 AND 100% DRY WEIGHT BASIS, AND BE FIBROUS AND ELONGATED SUCH AS FROM SHREDDED BARK, STUMP GRINDINGS, COMPOSED BARK, OR EQUIVALENT MANUFACTURED PRODUCTS. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS, OR REPROCESSED WOOD PRODUCTS SHALL NOT BE USED AS ORGANIC MATERIAL.
- THE MIX SHALL NOT CONTAIN SILTS, CLAY, OR FINE SANDS.
- THE MIX SHALL HAVE A PARTICLE SIZE BY WEIGHT OF 70 TO 85% PASSING A 6-INCH SCREEN AND A MAXIMUM OF 85% PASSING THE 0.75-INCH SCREEN.
- THE MIX PH SHALL BE BETWEEN 5.0 AND 8.0.
- THE BERM SHALL BE AT LEAST 12 INCHES HIGH AND AT LEAST 2 FEET WIDE.
- TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, EROSION CONTROL MIX BERMS, PAGE 106.

E3

STABILIZED CONSTRUCTION ENTRANCE  
NOT TO SCALE



- STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
- THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.
- THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
- THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICHEVER IS GREATER.
- GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING.
- ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.
- TO BE CONSTRUCTED IAW NH SWM #3 4-2 SEDIMENT CONTROL PRACTICES, TEMPORARY CONSTRUCTION EXIT, PAGE 124.

E7

DEFINITION OF STABLE:

PER ENV-WQ 1500 ALTERATION OF TERRAIN

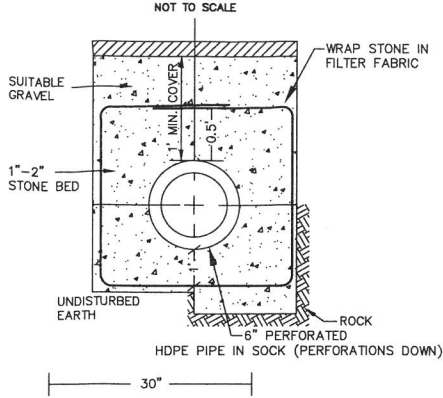
- BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
- A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED.
- A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED.
- OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

ADDITION STABILIZATION NOTES:

- HAY MULCH OR OTHER APPROVED METHODS SHALL BE USED TO CONTROL EROSION OF NEWLY GRADED AREAS. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS AFTER THEIR CONSTRUCTION.
- CITY OF ROCHESTER CHAPTER 50: DISTURBED SOIL AREAS SHALL BE EITHER TEMPORARILY OR PERMANENTLY STABILIZED. IN AREAS WHERE FINAL GRADING HAS NOT OCCURRED, TEMPORARY STABILIZATION MEASURES SHOULD BE IN PLACE WITHIN SEVEN (7) CALENDAR DAYS FOR EXPOSED SOIL AREAS THAT ARE WITHIN ONE HUNDRED (100) FEET OF A SURFACE WATER BODY OR A WETLAND AND NO MORE THAN 14 CALENDAR DAYS FOR ALL OTHER AREAS. PERMANENT STABILIZATION SHOULD BE IN PLACE WITHIN THREE (3) CALENDAR DAYS FOLLOWING COMPLETION OF FINAL GRADING OF EXPOSED SOIL AREAS.

E4

UNDERDRAIN TRENCH DETAIL  
NOT TO SCALE



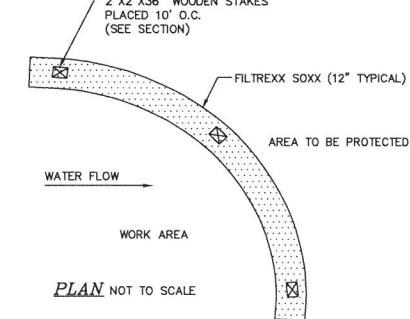
NOTE:  
1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.

E8

TEMPORARY EROSION CONTROL MEASURES

- THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
- EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER.
- ALL DISTURBED AREAS SHALL BE RETURNED TO ORIGINAL GRADES AND ELEVATIONS. DISTURBED AREAS SHALL BE LOADED WITH A MINIMUM OF 4" OF LOAM AND SEEDED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA. (SEE SEED SPECIFICATIONS THIS SHEET)
- ALL DISTURBED AREAS WILL BE RESTABILIZED WITHIN 45 DAYS. AT ANY ONE TIME, NO MORE THAN 5 ACRES, (217,800 Sq. Ft.) WILL BE DISTURBED.
- SILT FENCES AND PERIMETER BARRIERS SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY RAIN DURING THE LIFE OF THE PROJECT. ALL DAMAGED AREAS SHALL BE REPAIRED, SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
- AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
- PER THE EPA CGP REQUIREMENTS THERE WILL BE REPORTS OF THE EROSION CONTROL INSPECTIONS IAW SWPPP PREPARED BY BS&E. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER 0.5" OR GREATER RAIN EVENT.
- DITCHES, SWALES, AND BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- DO NOT TRAFFIC EXPOSED SOIL SURFACES WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.
- DRIVEWAYS AND CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINAL GRADE.
- STABILIZATION MEANS:
  - A MINIMUM OF 85% OF VEGETATIVE COVER HAS BEEN ESTABLISHED.
  - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED, OR
  - EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
- THIS PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
- THE NHDES STORMWATER MANUAL, IN THREE VOLUMES, DATED DECEMBER 2008, IS A PART OF THIS PLAN SET AND THE MORE RESTRICTIVE WILL GOVERN. (NH SWM)

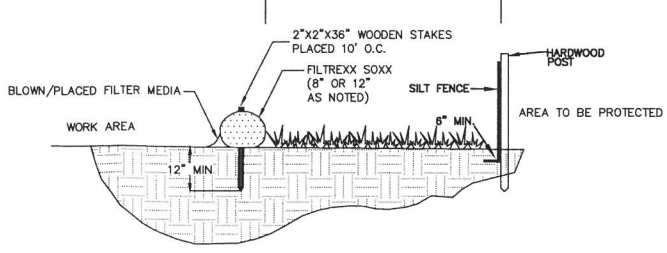
E10



NOTES

- ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
- FILTREXX MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
- COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.
- FILTREXX SOXX MAY BE USED IN PLACE OF SILT FENCE OR OTHER SEDIMENT BARRIERS.
- SILT/COMPOST COMPOST/SOIL/ROCK/SEED FILL MATERIAL SHALL BE ADJUSTED AS NECESSARY TO MEET THE REQUIREMENTS OF THE SPECIFIC APPLICATION.
- FILTREXX SOXX IS A REGISTERED TRADEMARK OF FILTREXX INTERNATIONAL, LLC.
- SILT FENCE IS NOT A SUBSTITUTION FOR FILTREXX SOXX AND ANY EQUAL SUBSTITUTION TO BE APPROVED.
- TO BE CONSTRUCTED IAW FILTREXX, SECTION 1: EROSION & SEDIMENT CONTROL (PAGE 323) - CONSTRUCTION ACTIVITIES, SWPPP CUT SHEET: FILTREXX SEDIMENT CONTROL

FILTREXX SEDIMENT CONTROL  
NOT TO SCALE



NOTE: FOR AREAS REQUIRING DOUBLE PERIMETER CONTROL WITHIN 50' OF JURISDICTIONAL WETLANDS AND NOT FOR ALL SILT SOXX APPLICATIONS. THIS DUPLICATION MAY BE SPECIFIED AS 12" SILT SOXX OR ORANGE CONSTRUCTION FENCE AS NOTED.

SECTION NOT TO SCALE

EROSION & SEDIMENT CONTROL DETAILS

LAND OF  
DAVID & DESTINY GROEN  
138 CHESLEY HILL ROAD  
ROCHESTER, NH 03839  
TAX MAP 246 LOT 27

BERRY SURVEYING & ENGINEERING  
335 SECOND CROWN POINT ROAD  
BARRINGTON, NH 03825 (603)332-2863  
AS NOTED  
DATE : JULY 10, 2018  
FILE NO. : DB 2018 - 068 (CRB)

STATE OF NEW HAMPSHIRE  
KENNETH A. BERRY  
No. 1424  
LICENSED PROFESSIONAL ENGINEER

E-101

SHEET 4 OF 5



# E11

## CONSTRUCTION SEQUENCE:

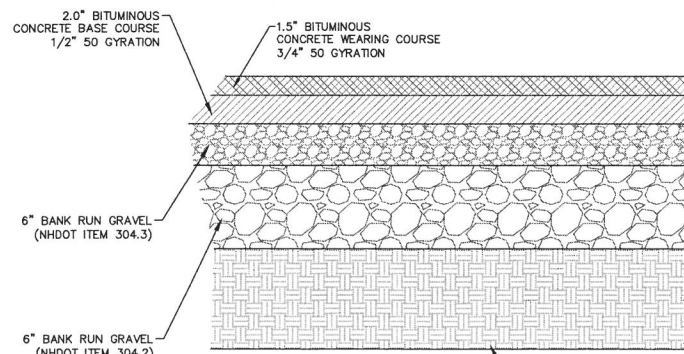
- CUT AND REMOVE TREES IN CONSTRUCTION AREA ONLY AS REQUIRED, RELOCATE ANY PROJECT T.B.M.
- CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES AS SPECIFIED. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SOIL LAND DISTURBANCE AND MUST BE REVIEWED AND APPROVED BY THE COMMUNITY SERVICES DEPARTMENT.
- EROSION, SEDIMENT AND DETENTION CONTROL FACILITY SHALL BE INSTALLED & STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM. TEMPORARY DIVERSIONS MAY BE REQUIRED. POST CONSTRUCTION STORM WATER MANAGEMENT PRACTICES MUST BE INITIATED AND STABILIZED EARLY IN THE PROCESS.
- CLEAR, CUT AND DISPOSE OF DEBRIS IN APPROVED FACILITY
- CONSTRUCT TEMPORARY CULVERTS AS REQUIRED, OR DIRECTED
- CONSTRUCT ROADWAYS FOR ACCESS TO DESIRED CONSTRUCTION AREAS. ALL ROADS SHALL BE STABILIZED IMMEDIATELY
- START BUILDING CONSTRUCTION
- INSTALL PIPE AND CONSTRUCTION ASSOCIATED APPURTENANCES AS REQUIRED OR DIRECTED. INSTALL RAIN GARDENS. ALL DISTURBED AREAS SHALL STABILIZED IMMEDIATELY AFTER GRADING.
- BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SEEDDED OR MULCHED AS REQUIRED, OR DIRECTED. NO AREA IS ALLOWED TO BE DISTURBED FOR A LENGTH OF TIME THAT EXCEEDS 90 DAYS BEFORE BEING STABILIZED. DAILY, OR AS REQUIRED. ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADES. ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADES.
- CONSTRUCT TEMPORARY BERMS, DRAINS DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION. ALL SWPPP INSPECTIONS MUST BE CONDUCTED BY A QUALIFIED PROFESSIONAL SUCH AS A PROFESSIONAL ENGINEER (P.E.), A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC), A CERTIFIED EROSION SEDIMENT AND STORM WATER INSPECTOR (CESSW), OR A CERTIFIED PROFESSIONAL IN STORM WATER QUALITY (CPSWQ). INSPECTION REPORTS SHALL BE SUBMITTED TO THE COMMUNITY SERVICES DEPARTMENT.
- COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE ESTABLISHED THEMSELVES AND SITE IMPROVEMENTS ARE COMPLETE.
- SMOOTH AND REVEGETATE ALL DISTURBED AREAS.
- FINISH PAVING ALL ROADWAYS.

# E13

## WINTER STABILIZATION NOTES

- ALL DISTURBED AREAS THAT DO NOT HAVE AT LEAST 85% VEGETATIVE COVERAGE PRIOR TO OCTOBER 15TH SHALL BE STABILIZED BY APPLYING MULCH AT A RATE OF 3-4 TONS PER ACRE. ALL SIDE SLOPES, STEEPER THAN 4:1, THAT ARE NOT DIRECTED TO SWALES OR DETENTION BASINS, SHALL BE LINED WITH BIODEGRADABLE/PHOTODEGRADABLE "JUTE MATTING" (EXCELSIOR'S CURLEX II OR EQUAL). ALL OTHER SLOPES SHALL BE MULCHED AND TACKED AT A RATE OF 3-4 TONS PER ACRE. THE APPLICATION OF MULCH AND/OR JUTE MATTING SHALL NOT OCCUR OVER EXISTING SNOW COVER. IF THE SITE IS ACTIVE AFTER NOVEMBER 15TH, ANY SNOW THAT ACCUMULATES ON DISTURBED AREAS SHALL BE REMOVED. PRIOR TO SPRING THAW ALL AREAS WILL BE STABILIZED, AS DIRECTED ABOVE.
- ALL SWALES THAT DO NOT HAVE FULLY ESTABLISHED VEGETATION SHALL BE EITHER LINED WITH TEMPORARY JUTE MATTING OR TEMPORARY STONE CHECK DAMS (APPROPRIATELY SPACED). STONE CHECK DAMS WILL BE MAINTAINED THROUGHOUT THE WINTER MONTHS. IF THE SWALES ARE TO BE MATTED WITH PERMANENT LINERS OR RIPRAP WITH ENGINEERING FABRIC, THIS SHALL BE COMPLETED PRIOR TO WINTER SHUTDOWN OR AS SOON AS THEY ARE PROPERLY GRADED AND SHAPED.
- PRIOR TO NOV. 15TH ALL ROADWAY AND PARKING AREAS SHALL BE BROUGHT UP TO AND THROUGH THE BANK RUN GRAVEL APPLICATION. IF THESE AREAS' ELEVATIONS ARE PROPOSED TO REMAIN BELOW THE PROPOSED SUBGRADE ELEVATION, THE SUBGRADE MATERIAL SHALL BE ROUGHLY GROWNED AND A 3" LAYER OF CRUSHED GRAVEL SHALL BE PLACED AND COMPACTED. THIS WILL ALLOW THE SUBGRADE TO SHED RUNOFF AND WILL REDUCE ROADWAY EROSION. THIS CRUSHED GRAVEL DOES NOT HAVE TO CONFORM TO NH DOT 304.3, BUT SHALL HAVE BETWEEN 15-25% PASSING THE #200 SIEVE AND THE LARGEST STONE SIZE SHALL BE 2". IF THE SITE IS ACTIVE AFTER NOVEMBER 15TH, ANY ACCUMULATED SNOW SHALL BE REMOVED FROM ALL ROADWAY AND PARKING AREAS.
- AFTER OCTOBER 15TH, THE END OF NEW HAMPSHIRE'S AVERAGE GROWING SEASON, NO ADDITIONAL LOAM SHALL BE SPREAD ON SIDE SLOPES AND SWALES. THE STOCKPILES THAT WILL BE LEFT UNDISTURBED UNTIL SPRING SHALL BE SEEDDED BY THIS DATE. AFTER OCTOBER 15TH, ANY NEW OR DISTURBED PILES SHALL BE MULCHED AT A RATE OF 3-4 TONS PER ACRE. ALL STOCKPILES THAT WILL REMAIN THROUGHOUT THE WINTER SHALL BE SURROUNDED WITH SILT FENCING.

# E16



### NOTES:

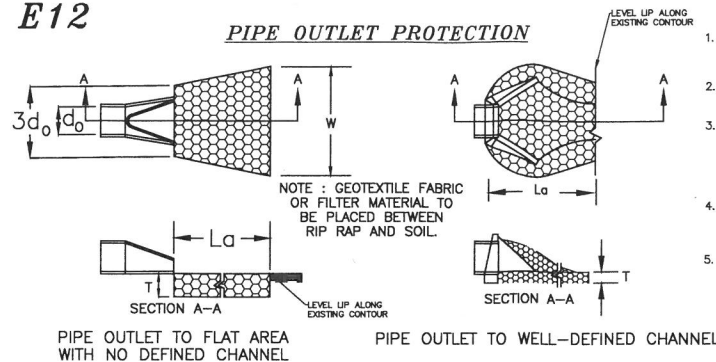
- BITUMINOUS MATERIALS SHALL CONFORM TO NHDOT SPECIFICATION SUBSECTION 401.3.6.
- PAVEMENT BASE COURSE AGGREGATE SHALL CONFORM TO NHDOT SPECIFICATION SECTION 304, ITEM 304.3 AND COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY.
- PAVEMENT SUBBASE COURSE AGGREGATE AND AGGREGATE FOR SUBGRADE REPAIR AREAS SHALL BE SUITABLE FOR USE AS STRUCTURAL FILL AND BE PROPORTIONED AND COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY. FOR NEW CONSTRUCTION AREAS ONLY. IN EXISTING PAVEMENT AREAS THE CONTRACTOR IS TO ENSURE THE BASE MATERIAL IS SUITABLE TO THE OWNER FOR RE-PAVING

## BITUMINOUS CONCRETE PAVEMENT SECTION

NOT TO SCALE

# E12

## PIPE OUTLET PROTECTION



# E14

NOTE: Temporary seed mix for stabilization of turf shall be winter rye or oats at a rate of 2.5 lbs. per 1000 s.f. and shall be placed prior to OCT. 15, if permanent seeding not yet complete.

SEEDING GUIDE				
USE	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED
STEPPED CUTS AND FILL BORDERS	A	POOR	GOOD	GOOD
DISPOSAL AREAS	B	POOR	GOOD	GOOD
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	C	POOR	GOOD	GOOD
LIGHTLY USED PARKING LOTS, GAS AREAS, UNPAVED AREAS, AND UNPAVED AREAS	D	POOR	GOOD	GOOD
PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL IS ESSENTIAL FOR GOOD TURF)	E	POOR	GOOD	GOOD
	F	POOR	GOOD	GOOD

GRAVEL, P.T. SEE NH-PN-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.

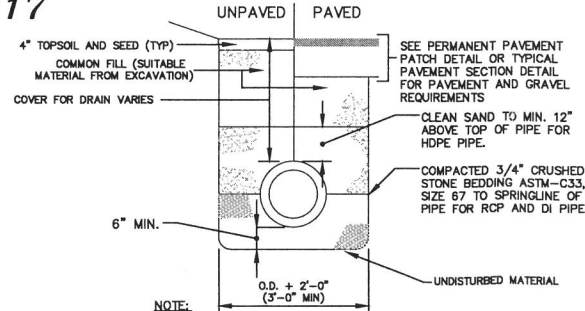
1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE 7-36.

2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.

## SEEDING SPECIFICATIONS

- GRADING AND SHAPING
  - SLOPES SHALL NOT BE STEEPER THAN 2:1; 3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
  - SEEDBED PREPARATION
    - SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
    - STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEED BED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
- ESTABLISHING A STAND
  - LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
    - AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100LBS. PER 1,000 SQ.FT.
    - NITROGEN(N), 50LBS. PER ACRE OR 1.1LBS. PER 1,000 SQ.FT.
    - PHOSPHATE(P2O5), 100LBS. PER ACRE OR 2.2LBS. PER 1,000 SQ.FT.
    - POTASH(K2O), 100LBS. PER ACRE OR 2.2LBS. PER 1,000 SQ.FT.

# E17



### NOTE:

PLASTIC DRAIN PIPE (HDPE) SHALL BE ADS N-12 (CORRUGATED EXTERIOR/SMOOTH INTERIOR) OR EQUAL MEETING AASHTO M-252 AND H-200 LOADING.

DI DRAIN PIPE SHALL BE CL. 50.

RC DRAIN PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.

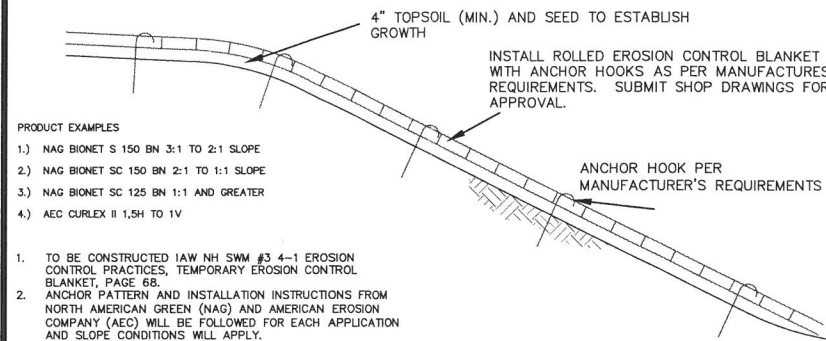
## TYPICAL DRAIN AND SEWER PIPE TRENCH

NOT TO SCALE

## PIPE OUTLET PROTECTION CONSTRUCTION SPECIFICATIONS

- THE SUB GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS. SPECIFIED GRADATION.
- THE ROCK OR GRAVEL USED FOR FILTER OF RIP RAP SHALL CONFORM TO NHDOT SECTION 583.
- GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP RAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
- STONE FOR THE RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.
- TO BE CONSTRUCTED IAW NH SWM #2 4-6 CONVEYANCE PRACTICES, 6. OUTLET PROTECTION, PAGE 172.

# E15



### PRODUCT EXAMPLES

- NAG BIONET S 150 BN 3:1 TO 2:1 SLOPE
- NAG BIONET SC 150 BN 2:1 TO 1:1 SLOPE
- NAG BIONET SC 125 BN 1:1 AND GREATER
- AEC CURLEX II 1.5H TO 1V

- TO BE CONSTRUCTED IAW NH SWM #3 4-1 EROSION CONTROL PRACTICES, TEMPORARY EROSION CONTROL BLANKET, PAGE 68.
- ANCHOR PATTERN AND INSTALLATION INSTRUCTIONS FROM NORTH AMERICAN GREEN (NAG) AND AMERICAN EROSION COMPANY (AEC) WILL BE FOLLOWED FOR EACH APPLICATION AND SLOPE CONDITIONS WILL APPLY.

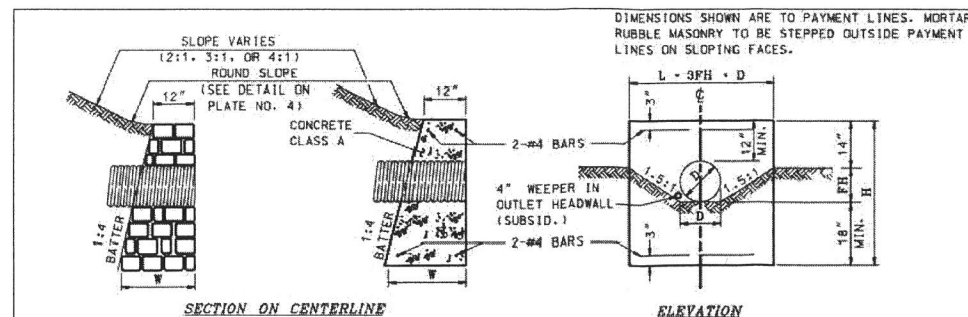
## ROLLED EROSION CONTROL BLANKET (RECB) SLOPE STABILIZATION DETAIL

NOT TO SCALE

# E18

DIAMETER	12"	15"	18"	24"	30"
LENGTH	3'-2"	3'-10"	5'-2"	7'-2"	9'-2"
CONC. (Cu.Yd.)	0.61	0.85	1.13	1.78	2.58
STEEL (Lbs.)	9	11	14	20	25

ALL STEEL SHALL BE #5 REINFORCING STEEL, SPACED @ 12" ON CENTER SEE NHDOT DETAIL HW-1



## HEADWALLS (MASONRY & CONCRETE)

EROSION & SEDIMENT CONTROL DETAILS

LAND OF  
DAVID & DESTINY GROEN  
138 CHESLEY HILL ROAD  
ROCHESTER, NH 03839  
TAX MAP 246 LOT 27

BERRY SURVEYING & ENGINEERING  
335 SECOND CROWN POINT ROAD  
BARRINGTON, NH 03825 (603)332-2863  
AS NOTED  
DATE: JULY 10, 2018  
FILE NO.: DB 2018 - 068 (CRB)

